# Operators Associativity and Precedence Assignment

1. Use operator associativity, evaluate the following expressions and predict the output
   1. x = 34 + 12/4 – 56
   2. 12 + 3 - 4 / 2 < 3 + 1
   3. (2 + (3 + 2)) \* 10
   4. 34 + 12/4 – 45

Ans) a. -19

b. False

c. 70

d. -8

1. Rewrite the following expressions with improved readability
   1. age < 18 && height < 48 || age > 60 && height > 72
   2. char name value
   3. char $name

Ans) a. (age<18 && height<48) || (age>60 && height>72)

b. char name = value

c. char name[]

1. Predict the value of a after each statement.

int main(void)

{

int i = 10;

char a = 'd';

a += 10;

a \*= 5;

a /= 4;

a %= 2;

a \*= a + i;

**return** 0;

}

Output:

I=10

a= d, a=100

a=n a=110

a= nil a=550

a= nil a=137

a=nil a=1

a = nil a=11

1. Consider a = 12, b = 3, predict the output of the following.
   1. (a>100) && (b<10)

Ans) FALSE

* 1. (a==4) && (b==2)

Ans) FALSE

* 1. (a==11) && (a++)

Ans) FALSE

1. Consider a = 10, b = 11, predict the output of the following.
   1. (a>10) || (b<10)

Ans) TRUE

* 1. a || 12.12

Ans) FALSE

* 1. a || b

Ans) FALSE

* 1. !(a > 5)

Ans) FALSE

1. Consider int age = 10, height = 45, year = 2000; Predict the output of the following.
   1. (age < 12 && height < 48) || (age > 65 && height > 72)

Ans) TRUE

* 1. (year % 4 == 0 && year % 100 != 0 ) || (year % 400 == 0);

Ans) TRUE